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MONTANA OIL AND GAS STATISTICAL BULLETIN

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BOARD OF OIL AND GAS CONSERVATION
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Vol. XXI, No. 9 **SEPTEMBER, 1973**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of September, 1973, averaged 95,093 barrels daily, an increase of 1,340 barrels from the average August production of 93,753.

The nine refineries in the state processed 143,964 barrels of crude oil daily for the month of September, 1973, a decrease of 11,990 barrels from the 155,954 barrels processed daily during the month of August.

During September, 76 wells were completed, 8 oil, 9 gas and 59 dry holes.

During September, the commission issued 75 permits to drill new wells, a decrease of 17 from the 92 permits issued during August.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA MONTH OF SEPTEMBER, 1973

IN STORAGE September 1st	
By Producers	305,603
By Transporters	1,226,978
By Refiners	904,478
TOTAL STORAGE	2,437,059
Produced in Montana During Month	2,852,798
Imported During Month	3,557,869
TOTAL	8,847,726
DISPOSITION:	
Refined in Montana	4,318,913
Exported	2,118,623
Used for Fuel or Lost	3,843
TOTAL	6,441,379
IN STORAGE September 30th	
By Producers	311,328
By Transporters	1,337,313
By Refiners	757,706
TOTAL STORAGE	2,406,347

NATURAL GAS WITHDRAWALS IN MONTANA

Month of September, 1973

Field	M. C. Ft.
Big Coulee	61,112
Blackjack	11,112
Bowdoin	439,650
Bowes	48,250
Cabin Creek	69,713
Cedar Creek	139,396
Cut Bank (including Regan)	179,531
Dry Creek	36,406
Elk Basin	41,525
Flat Coulee	547
Gold Butte	481
Grandview	9,780
Hardin	3,217
Keith Block	11,644
Kevin Sunburst	9,535
Lake Basin	16,639
Liscom Creek	48,789
Middle Butte	—0—
Mt. Lilly	—0—
Pine	44,677
Plevna	5,549
South Devon	96
Tiger Ridge	2,271,541
Trail Creek	3,940
Utopia	—0—
West Butte	—0—
Whitlash	21,032
Miscellaneous	292,927
TOTAL	3,767,089

Total Withdrawals for September, 1972, were 1,394,493.

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PRODUCERS REPORT — MONTH OF SEPTEMBER, 1973

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Used or Lost	Storage End of Month
3	Ash Creek	3	23	878	----	689	----	212
1	Bainville	1	2,464	2,124	----	2,306	----	2,282
3	Bannatyne	3	----	648	648	----	----	----
4	Bear's Den	5	1,112	753	----	1,032	----	833
16	Bell Creek	248	23,080	735,165	734,194	----	10	24,041
1	Benrud	1	298	719	844	----	----	173
3	Benrud East	3	1,833	11,309	11,392	----	----	1,750
1	Benrud Northeast	1	799	1,670	1,519	----	----	950
1	Berthelote	1	455	83	213	----	----	325
5	Big Wall	14	1,028	5,048	4,670	----	----	1,406
3	Blackfoot	3	471	2,301	2,269	----	----	503
1	Border	5	2,653	299	----	727	----	2,225
1	Bowes	33	4,079	8,502	8,886	----	----	3,695
1	Bradley	1	558	521	823	----	----	256
4	Brorson-Madison	4	1,310	2,962	----	3,334	----	938
5	Brorson-Red River	5	5,931	7,096	----	6,805	----	6,222
3	Brorson-Red River South	3	1,510	7,629	----	7,385	----	1,754
1	Burns Creek	1	404	2,392	----	2,084	----	712
6	Brush Lake	6	1,172	12,087	11,428	----	----	1,831
2	Cabin Creek	86	----	218,954	218,954	----	----	----
1	Canal	1	754	5,661	----	5,261	----	1,154
9	Cat Creek	41	2,865	12,934	12,030	----	----	3,269
1	Chelsea Creek	1	209	434	----	421	----	222
1	Clark's Fork	1	68	155	----	191	----	32
1	Clark's Fork South	1	596	89	----	200	----	485
3	Conrad South	3	----	782	782	----	----	----
1	Cow Creek	1	307	629	----	532	----	404
4	Cow Creek East	5	612	16,236	----	16,233	----	615
1	Culbertson	1	204	769	----	829	----	144
4	Cupton	7	3,553	6,940	5,733	1,692	----	3,068
127	Cut Bank	851	60,693	315,438	314,960	601	----	60,570
----	Dean Dome	----	65	----	----	----	----	65
1	Deer Creek	1	318	1,094	897	----	----	515
1	Delphia	1	164	995	----	846	----	313
4	Devil's Basin	4	846	261	334	----	----	773
2	Dwyer	10	4,842	11,149	11,518	----	----	4,473
3	Elk Basin	46	658	110,398	110,400	----	----	656
5	Elk Basin Northwest	8	1,649	3,338	3,514	----	----	1,473
6	Fairview	10	8,752	27,167	7,213	18,366	----	10,340
2	Fertile Prairie	2	808	1,300	----	1,159	----	949
5	Flat Coulee	21	2,660	9,721	9,840	----	----	2,541
36	Flat Lake	52	3,105	51,771	51,294	----	----	3,582
6	Flat Lake South	6	1,308	8,197	8,344	----	----	1,161
1	Four Buttes	1	456	385	----	441	----	400
1	Ft. Gilbert	2	312	13,833	13,943	----	----	202
1	Frannie	1	----	810	810	----	----	----
8	Fred & George Creek	16	2,534	36,826	37,930	----	----	1,430
1	Froid South	1	224	937	----	587	----	574
1	Gage	1	161	108	----	170	----	99
3	Gas City	18	4,874	23,054	16,181	5,047	----	6,700
1	Girard	1	1,578	858	----	1,039	----	1,397
11	Glendive	15	1,765	23,438	22,785	----	----	2,418
9	Goose Lake	28	3,309	24,027	24,186	----	----	3,150
7	Graben Coulee	14	4,879	3,505	794	2,764	----	4,826
2	Gypsy Basin	2	----	601	----	601	----	----
1	Hay Creek-Mission Canyon	1	57	956	941	----	----	72
1	Hay Creek-Red River	1	281	4,680	4,609	----	----	352
4	Hiawatha	4	2,920	5,699	5,925	----	----	2,694
----	Injun Creek	----	266	----	----	----	----	266
6	Ivanhoe	11	1,145	3,437	2,775	----	----	1,807
2	Jim Coulee	19	4,240	36,001	36,774	----	----	3,467
6	Keg Coulee	14	4,025	17,175	16,211	----	222	4,667
2	Keg Coulee North	2	636	2,280	2,120	----	----	796
1	Kelley	2	636	2,280	2,120	----	----	796
70	Kevin Sunburst	382	10,530	23,398	20,991	2,933	27	9,977
8	Laird Creek	10	734	2,597	----	2,595	----	736
1	Landslide Butte	2	885	415	----	----	----	1,300
3	Leary	3	1,834	2,467	----	2,880	55	1,366
1	Little Beaver	23	----	38,901	38,901	----	----	----
2	Little Beaver East*	10	1,410	10,728	10,716	----	----	1,422
1	Little Wall Creek	1	290	2,957	2,719	----	----	528
1	Lodge Grass	1	449	770	----	906	----	313
7	Lonetree Creek	7	3,696	22,128	20,997	----	----	4,827
3	Lookout Butte (Coral Creek)	30	274	57,367	57,246	----	----	395
1	Mason Lake	1	301	395	349	----	----	347
2	Melstone	3	692	1,771	1,974	----	----	489
1	Mineral Bench	1	401	497	428	----	----	470
2	Miners Coulee	2	----	477	----	477	----	----
11	Monarch	14	4,295	13,195	10,298	1,926	----	5,266
2	Mosser	2	----	338	----	338	----	----
1	Nohly	1	1,199	9,337	----	10,059	----	477
3	Otis Creek	3	1,144	5,352	----	5,428	----	1,068
6	Outlook	8	5,859	13,626	14,553	----	----	4,932
1	Outlook South	1	1,161	353	870	----	----	644
2	Outlook West	2	1,808	1,067	1,494	----	----	1,381
1	Pennel-Lookout Butte	108	----	188,159	188,159	----	----	----
4	Pine	107	17,140	232,117	232,139	----	----	17,118
56	Pondera	252	3,841	23,194	23,450	----	----	3,585
1	Pondera Coulee	1	----	183	183	----	----	----
6	Poplar	64	8,218	40,593	42,062	----	----	6,749
3	Poplar Northwest	3	1,393	1,046	1,295	----	----	1,144
1	Prairie Elk	1	520	154	200	----	----	474
----	Pritchard Creek	----	167	----	----	----	----	167
1	Putnam	2	242	9,432	----	9,432	----	242
3	Rabbit Hills	3	2,119	5,345	----	5,288	----	2,176
6	Ragged Point	15	3,397	17,894	17,582	----	----	3,709
2	Rattlesnake Coulee	2	601	359	621	----	----	339
4	Raymond	4	2,567	31,515	31,094	----	----	2,988
3	Reagan	43	735	14,870	14,784	----	----	821
1	Red Creek	19	----	14,077	14,077	----	----	----
1	Red Fox	1	189	596	434	----	----	351
1	Redstone	1	142	1,163	1,118	----	----	187
1	Repeat	1	120	229	----	289	----	60
3	Reserve	4	661	4,918	4,855	----	----	724
1	Richey	1	505	837	----	1,059	----	283
1	Richey Southwest	5	425	1,520	817	----	----	1,128
1	Rush Mountain	1	374	2,311	2,239	----	----	446
2	Salt Lake	3	471	3,272	----	3,053	----	690
3	Sand Creek	3	1,457	1,328	1,944	----	12	829
1	Second Creek	1	663	8,614	----	7,941	----	1,336
1	Sioux Pass	1	999	15,269	15,236	----	----	1,032
1	Snyder	1	283	320	----	379	----	224
7	Soap Creek	11	1,429	868	----	943	----	1,354
2	Spring Lake	2	561	1,369	----	889	----	1,041
3	Stensvad	8	2,433	44,741	43,403	----	----	3,771
17	Sumatra	72	18,253	99,990	98,977	----	80	19,186
5	Tule Creek	5	3,206	18,196	----	18,368	----	3,034
2	Tule Creek East	2	1,091	5,263	----	5,399	----	955
3	Tule Creek South	3	590	2,515	----	2,679	----	426
2	Vida	2	387	779	----	847	----	319
4	Volt	5	2,599	9,589	10,436	----	----	1,752
3	Weldon	3	914	5,505	5,404	----	----	1,015
1	West Butte	1	----	1,044	----	1,044	----	----
20	Whitlash	44	5,843	12,394	11,531	----	----	6,706
----	Whitlash West	----	284	----	----	----	----	284
2	Willow Creek North	2	359	2,160	2,037	----	----	482
2	Wills Creek South	2	----	268	268	----	----	----
2	Wolf Springs	2	1,390	1,270	1,350	----	----	1,310
2	Woodrow	2	254	2,125	1,796	----	----	583
2	Wright Creek	4	1,922	966	829	----	----	2,059
----	Wildcat, Blaine Co.	----	157	----	----	----	----	157
1	Wildcat, McCone Co.	1	52	404	----	394	----	62
2	Wildcat, Musselshell Co.	2	949	3,751	----	4,228	----	472
1	Wildcat, Roosevelt Co.	1	262	1,566	----	1,705	----	123
2	Wildcat, Toole Co.	2	294	194	----	194	----	294
681	TOTAL	2,986	305,603	2,852,798	2,673,652	173,015	406	311,328

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1972	33,904,139	92,634	33,861,385	92,517
First Quarter, 1973	8,463,610	94,040	8,461,995	94,022
Second Quarter, 1973	8,624,084	94,770	8,628,131	94,815
July, 1973	2,871,754	92,637	2,869,631	92,569
August, 1973	2,906,336	93,753	2,915,127	94,036
September, 1973	2,852,798	95,093	2,846,667	94,889

Oil in Storage	In Producers Field Tanks	In Transporters Storage	In Refiners Storage**	Total Oil in Storage**
December, 1972	320,567	1,303,848	1,228,659	2,853,074
March, 1973	319,421	1,187,629	669,292	2,176,342
June, 1973	313,690	1,360,758	743,010	2,417,458
July, 1973	315,178	1,488,275	1,106,289	2,909,742
August, 1973	305,603	1,226,978	904,478	2,437,059
September, 1973	311,328	1,337,313	757,706	2,406,457

*Montana Oil Only

**Includes Wyoming Oil

TRANSPORTERS REPORT — MONTH OF SEPTEMBER, 1973

	Storage First of Month	Oil Received By			Loss or Gain	Oil Shipped To			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Western Crude Oil Co.			689				689		
BAINVILLE—Koch Oil Company			2,306				2,306		
BEAR'S DEN—Truck			1,032					1,032	
BELL CREEK—Pipeline	52,994	734,194					423,056	312,831	51,301
BIG WALL—Continental Pipeline Co.		4,670				4,670			
BLACKFOOT—									
Camerland Cardinal Corp.		2,269						2,269	
BORDER—Permian Corp.			727					727	
BOWES—Texaco		8,886				8,886			
BRORSON-MADISON, BRORSON-RED RIVER AND BRORSON-RED RIVER SOUTH—Koch Oil Company			17,524					17,524	
BRUSH LAKE—Portal Pipeline Co.		11,428					11,428		
BURNS CREEK—									
Western Crude Oil, Inc.			2,084				2,084		
CABIN CREEK AND OTHERS*—									
Butte Pipeline Co.	277,935	462,671	12,951	3,257,801			3,731,013		280,345
Shell Pipeline Co.	6,128	314,108			1,113			313,118	6,005
	284,063	776,779	12,951	3,257,801	1,113		3,731,013	313,118	286,350
CANAL—Koch Oil Company			5,261				5,261		
CAT CREEK—									
Continental Pipeline Co.		13,908				13,908			
CHELSEA CREEK—									
Western Crude Oil, Inc.			421				421		
CLARK'S FORK AND CLARK'S FORK SOUTH—Permian Corp.			391				391		
COW CREEK AND COW CREEK EAST—Western Crude Oil, Inc.			16,765				16,765		
CULBERTSON—Spruce Oil Co.			829				829		
CUT BANK—									
Continental Pipeline Co.		329,671	10,083					339,754	
Phillips Petroleum Co.	72,563	115,307		36,377	1,002	128,976			94,269
Texas Pipeline Co.	22,636	28,782		67,637	(17)			104,231	14,841
Union Oil Co.	38,399	42,382			106	14,134			66,541
Western Oil Trans. Co.		26,403						26,403	
Western Oil Trans. Co. (Mouton)		120,567						120,567	
	133,598	663,112	10,083	104,014	1,091	143,110		590,955	175,651
DELPHIA—Truck			846			846			
DWYER—Portal Pipeline Co.		11,468					11,468		
ELK BASIN AND ELK BASIN NORTHWEST—Marathon Pipeline Co.		113,321				113,321			
FAIRVIEW—									
Fairview Pipeline Co.		7,213					7,213		
Koch Oil Company			18,366				18,366		
		7,213	18,366				25,579		
FLAT COULEE—									
Camerland Cardinal Corp.		9,116				9,116			
FLAT LAKE AND FLAT LAKE SOUTH—Portal Pipeline Co.		56,956					56,956		
FT. GILBERT—									
Fairview Pipeline Co.		13,943					13,943		
FOUR BUTTES—Truck			441					441	
FRANNIE—Interstate Pipeline Co.		810					810		
FRED AND GEORGE CREEK—									
Camerland Cardinal Corp.	2,289	37,717				36,849		38	3,119
FROID SOUTH—Truck			587					587	
GAGE—Truck			170			170			
GIRARD—Koch Oil Company			1,039				1,039		
GLENDIVE, DEER CREEK, WOODROW AND SAND CREEK—									
Texas Pipeline Co.	8,240	21,661			1			20,302	9,598
GOOSE LAKE—Portal Pipeline Co.		23,864					23,864		
HAY CREEK—Fairview Pipeline Co.		941					941		
HIAWATHA—Continental Pipeline Co.		5,529					5,529		
IVANHOE—Continental Pipeline Co.		2,775				2,775			
JIM COULEE—									
Continental Pipeline Co.		39,493						39,493	
KEG COULEE AND KEG COULEE NORTH—Continental Pipeline Co.		17,182				16,776		406	
KELLEY—Continental Pipeline Co.		5,013				5,013			
KEVIN SUNBURST—									
Big West Oil Co.	8,411	14,303				15,571			7,143
Homestake Oil & Gas Co.	1,838	1,462				936			2,364
Texas Pipeline Co.	10,811	6,067			168	3,142			13,568
	21,060	21,832			168	19,649			23,075
LEARY—Permian Corp.			2,880				2,880		
LODGE GRASS—Permian Corp.			906			906			
MASON LAKE—									
Continental Pipeline Co.		349				349			
MELSTONE—Continental Pipeline Co.		1,974				1,770	204		
MIDDLE WALL—									
Continental Pipeline Co.**		2,037						2,037	
MOSSER—Permian Corp.			338				338		
NOHLY—Koch Oil Co.			10,059				10,059		
OTIS CREEK—									
Western Crude Oil, Inc.			5,428				5,428		
OUTLOOK, OUTLOOK SOUTH AND OUTLOOK WEST—									
Portal Pipeline Co.		16,648					16,648		
PONDERA—Phillips Petroleum Co.	26,357	25,643			149	19,584			32,267
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE—									
East Poplar Gathering System	18,960	59,218			526			65,113***	12,539
PUTNAM—Western Crude Oil, Inc.			9,432				9,432		
RABBIT HILLS—Truck			5,288				5,288		
RAGGED POINT—									
Continental Pipeline Co.		5,697		11,885		17,582			
RAYMOND—Portal Pipeline Co.		31,094					31,094		
RED CREEK—									
Western Oil Transportation Co.		16,580						16,580	
RESERVE—Portal Pipeline Co.		4,874					4,874		
RUSH MOUNTAIN—Sinclair Ref. Co.		2,239					2,239		
SALT LAKE—Koch Oil Company			3,053				3,053		
SECOND CREEK—Koch Oil Company			7,941				7,941		
SNYDER—Permian Corp.			379			379			
SOAP CREEK—Permian Corp.			943				943		
SPRING LAKE—Koch Oil Co.			889				889		
SUMATRA AND STENSVAD—									
Continental Pipeline Co.	673,147	128,125		3,035,021		122,316		2,973,629	740,348
TULE CREEK—									
Spruce Oil Co.	6,270		23,767			26,972			3,065
Permian Corp.			2,679			2,679			
	6,270		26,446			29,651			3,065
WOLF SPRINGS—									
Continental Pipeline Co.		1,350				1,350			
WHITLASH AND WHITLASH WEST—Camberland Cardinal Corp.		12,360				8,884		3,476	
WILDCAT WELLS—Truck			6,521					6,521	
TOTAL	1,226,978	2,912,268	173,015	6,408,721	3,048	577,860	4,435,682	4,367,079	1,337,313

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey, Richey Southwest, Vida, Weldon and Wills Creek South.
**Little Wall Creek and Willow Creek North.
***Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF SEPTEMBER, 1973

	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Exxon Co.	Farmers Union	Jet Fuel Refinery	Phillips Petroleum Co.	Spruce Oil Co.	Westco Refining Co.	Total
Big Wall	.....	4,670	.....	.....	.....	.....	.....	.....	.....	4,670
Cat Creek	.....	1,854	.....	.....	10,474	.....	.....	.....	.....	12,328
Cut Bank	74,222	.....	.....	.....	.....	.....	119,848	.....	105,097	299,167
Elk Basin	.....	43,605	.....	32,697	37,019	.....	.....	.....	.....	113,321
Flat Coulee	.....	.....	.....	.....	.....	.....	.....	.....	9,116	9,116
Fred & George Creek	36,849	.....	.....	.....	.....	.....	.....	.....	.....	36,849
Ivanhoe	.....	2,775	.....	.....	.....	.....	.....	.....	.....	2,775
Keg Coulee	.....	14,141	.....	2,468	2,272	.....	.....	.....	.....	18,881
Kelley	.....	.....	.....	5,013	.....	.....	.....	.....	.....	5,013
Kevin Sunburst	19,649	.....	.....	.....	.....	.....	.....	.....	.....	19,649
Lodge Grass	.....	906	.....	.....	.....	.....	.....	.....	.....	906
Mason Lake	.....	349	.....	.....	.....	.....	.....	.....	.....	349
Melstone	.....	.....	.....	.....	1,770	.....	.....	.....	.....	1,770
Pondera	.....	.....	.....	.....	.....	.....	25,528	.....	.....	25,528
Ragged Point	.....	.....	.....	.....	17,582	.....	.....	.....	.....	17,582
Snyder	.....	379	.....	.....	.....	.....	.....	.....	.....	379
Sumatra & Stensvad	.....	15,453	.....	45,900	68,460	.....	.....	.....	.....	129,813
Tule Creek	.....	.....	.....	.....	.....	.....	.....	52,714	.....	52,714
Whitlash	.....	.....	.....	.....	.....	.....	8,884	.....	.....	8,884
Wolf Springs	.....	.....	.....	1,350	.....	.....	.....	.....	.....	1,350
Total Montana Oil	130,720	84,132	.....	87,428	137,577	.....	154,260	52,714	114,213	761,044
Canadian Oil Imported	.....	329,671	.....	405,854	531,900	.....	.....	.....	.....	1,267,425
Wyoming Oil Imported	.....	1,004,225	.....	982,026	304,193	.....	.....	.....	.....	2,290,444
Total Montana, Canadian & Wyoming Oil	130,720	1,418,028	.....	1,475,308	973,670	.....	154,260	52,714	114,213	4,318,913

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year 1972	24,723	37,303	70,391	132,417
September, 1972	27,020	43,190	71,834	142,044
September, 1973	25,368	42,248	76,348	143,964

PERCENTAGE OF CRUDE OIL REFINED

	Montana	Canada	Wyoming
Year 1972	18.67%	28.17%	53.16%
September, 1972	19.02%	30.41%	50.57%
September, 1973	17.62%	29.35%	53.03%